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AGRICULTURAL LIBRARIES INFORMATION NOTES

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THE KENTUCKY AGRICULTURAL EXPERI- MENT STATION INDEXING PROJECT: AN UPDATE

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The Kentucky Agricultural Experiment Station (KAES) Indexing Project is a long term venture that began two decades ago. In the 1960's the Agriculture Library at the University of Kentucky began analyzing substantial Kentucky publications, including all those issued by KAES, and set up a separate card file. The analytical work was done by the cataloger, and retrospective work was done to include everything published by KAES from the beginning. The file had author, title, and LC subject access and was in a separate section of the card catalog. This file was maintained until the workload in general cataloging became so great that the cataloger had to drop the project in 1975. Publishing activities by KAES slowed down so most of the material was available in the local index with library staff members using the Bibliography of Agriculture and AGRICOLA as supplements.

In the spring of 1984 the Kentucky Agricultural Experiment Station began making plans for its centennial celebration for the fall of 1985. Proposals were solicited by the Centennial Committee for projects to honor past and present researchers. A proposal was written to create a machine index of all KAES publications and to issue a printed index as the centennial bulletin. The machine index would be made available in the library and distributed to off-campus units. The indexing



Lillian Mesner (l.), Technical Advisor, and Amelie Charron (r.), Indexer, prepare indexing records for Kentucky Experiment Station publications project. (Photo by Bill Mesner)

would be done in house on an OCLC M300 terminal (a modified IBM PC) with the proper program and a hard disk. A cost estimate was submitted and the project was approved by the committee with strong support coming from the College Administration.

Early in the conception of the project it was decided to have indexing standards and conventions and that a controlled vocabulary would be used. The CAB Thesaurus was chosen as the controlled vocabulary as it was more comprehensive than LC subject headings and it was already being used in an accessible data base. When the National Agricultural Library (NAL) announced the adoption of the CAB Thesaurus for AGRICOLA, the feasibility of doing our indexing to AGRICOLA standards was explored and NAL was approached with the idea of Kentucky providing its indexing information to NAL. NAL responded favorably and after a meeting with Director Joe Howard it was decided that Kentucky would submit its indexing records for AGRICOLA with indexers at NAL revising and giving feedback. NAL would provide the training for the indexer.

Training for indexing began in January 1985 with Lillian Mesner, cataloger from the University of Kentucky Agriculture Library, going to Beltsville to work with AGRICOLA indexers. The NAL indexing manual was used as the basis for in-house training. With the guidance of two experienced indexers and working independently and receiving immediate feedback, she felt competent to do basic indexing.

The KAES Indexing Project was separated into descriptive tasks and indexing tasks. An additional staff person was funded by the College Administration to handle the basic descriptive and other daily activities associated with the project, i.e., photocopying of title pages. The indexing aspect of the project was assigned to three librarians with cataloging backgrounds. Indexing manuals were prepared and training and planning sessions were held before indexing began. As the workflow developed, materials were submitted regularly to NAL for revision and feedback. (Figure 1 and 2)

Once the indexing was going smoothly, attention was turned to the development of the local data base. Many indexing programs available for the IBM PC were explored and help was sought from the Agricultural Data Center at the University of Kentucky. The Data Center assigned a programmer to the project who wrote a dBase III program for our application. Testing continues on this and other indexing programs, so the creation of the local data base is still in the initial phase. (Figure 3 and 4)

As with any project, this one has had its share of unanticipated events. The addition of terms proposed by NAL for inclusion in the CAB Thesaurus (including many changes needed to accommodate American usage and spelling) caused some delays because our staff member had to devote an appreciable amount of time to annotating the thesaurus. Dealing with the writing style of the early authors consumed additional time by both Kentucky and NAL indexers. Regional terms and colloquial names of plants and insects that differed from modern usage

SAMPLE INDEXING PROCEDURE

Bulletin No. 103.

HESSIAN FLY EXPERIMENTS.

BY H. GARMAN, ENTOMOLOGIST AND BOTANIST.

It is now possible to complete the report on experiments made during 1901-1902 with reference to Hessian fly injury in its relation to the time of planting wheat. Statements concerning the benefit resulting from early planting have hitherto been based very largely or entirely on the results of the general practice of farmers. Wheat growers themselves sometimes contradict the assertion that late planting is a means of avoiding injury, basing their opinion on isolated cases of good crops having been obtained from very early-sown seed. Such crops are undoubtedly sometimes obtained, but if we knew all the circumstances an explanation could, in many of the cases, be given entirely consistent with the common opinion that late planting is the better practice. The following record continues and completes the partial report published in Bulletin 96.

Eight plots of Hungarian wheat were planted in the fall of 1901, one week apart, on the following dates: September 26, October 3, 10, 17, 24, 31, November 7, 14. The plots occupied one twenty-second of an acre of ground each. The land was in barley in the spring of 1901, and was already infested with Hessian fly. While a primary object of the experiments was to ascertain the time at which wheat might be planted so as to escape the fly, it was hoped that they might also throw some light on the question as to how late wheat may be planted and yet escape injury from freezing—a question that is so in-

FIGURE 1

The title page of the original document

NEW JOB	DATE	REV DATE	REV DATE
	Dec/5/85	APP 5/85	
DATE	1902 12	PAGE	0
CALL NUMBER	100 K41 (2)	FILE	
NO	Dec 1902	NO	103
NOTES	Documents available from Agriculture Library Agricultural Science Center - North University of Kentucky Lexington, KY 40546-0091		
BIBLIOGRAPHY 804			
LANGUAGES			
CATEGORY CODES			
PAGINATION	p. 229-244		
GEOGRAPHICAL TERMS (851)			
CARVOC TERMS	WHEAT MAYETIOLA DESTRUCTOR PEST CONTROL METHODS		
UNCONTROLLED SUBJECT TERMS			
AUTHORS 100	GARMAN, HARRISON H.		
TITLE 245	HESSIAN FLY EXPERIMENTS		
FILE BLK 653	ISOSOMA GRADE		
Form NAL-35 (2/78)	NAL INDEXING WORKSHEET		

FIGURE 2

The title page information is transferred to the NAL Indexing worksheet, indexing information is added, and worksheet is submitted to NAL for revision.

.... AND RESULTS

SCREEN FROM LOCAL DATA BASE

Field Name	
filecode	KAESB [subfile code for <u>Bulletine</u>]
catcod 072	F821 [NAL's Category Code]
Author 100	Garmen, Harrison [up to 10 authors]
Title 245	Hessian Fly Experiments
Series 250	Bulletin (Kentucky Agricultural Experiment Station) no. 103
Page 300	p. 229-244
Notes 500	
Callno 550	830.72:K419b
CAB001 850	wheat [up to 25 CAB descriptors]
CAB002 850	mayetiola destructor
CAB003 850	pest control methods
GE0001	[up to 10 geographic descriptors]
IOEN001 653	Isosoma grade [up to 15 local identifiers]

FIGURE 3

Indexing information is taken from the NAL worksheet and entered onto the workform for the local data base.

BIBLIOGRAPHY

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Garmen, Harrison

THE HESSIAN FLY EXPERIMENTS

Bulletin (Kentucky Agricultural Experiment Station) no. 103

p. 229-244

830.72:K419b

TITLE INDEX

FEEDING DAIRY COWS 26
HESSIAN FLY EXPERIMENTS 23
INSPECTION AND ANALYSES OF FOODS 19

AUTHOR INDEX

ALLEN, R.M. 20
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GARMAN, HARRISON 1, 6, 23, 25, 27
HARPER, JOHN M. 18, 24
MATHEWS, CLARENCE W. 4

SUBJECT INDEX

LOCUSTS 1, 27
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MILK PRODUCTION 10
PEST CONTROL EQUIPMENT 7
PEST CONTROL METHODS 23, 31
PICS 21
SHADE TREES 9
WHEAT 3, 23
WOODY PLANTS 9

FIGURE 4

Output from the local data base is published into an index with author, title, and controlled subject access.

necessitated consultation with faculty members. Many work sheets were returned to us from NAL with questions about our choice of descriptors or category codes. Upon rechecking our work, it became apparent that document title pages (which were all the NAL indexers had to work from) did not always reflect the range of subjects discussed within the document. Occasional differences of opinion inevitably arose between our group and NAL concerning the degrees of specificity and depth to which some documents should be indexed. At one point, we felt that changes in indexing procedures at NAL were not being communicated to us in a timely manner; this perception may reflect idiosyncratic differences between the two NAL indexers who have served as our reviewers. The feedback from NAL has been constructive and enables us to do quality indexing, but productivity has diminished because the ranks of our indexers have been reduced from three to one as other projects and daily activities have taken two of the librarians from the KAES project.

Although the KAES Indexing Project is behind schedule, we are not disappointed with our progress. The intellectual effort continues and the search for the perfect program continues. To date, 718 worksheets have been submitted to NAL for revision and subsequent incorporation into AGRICOLA. The brand of hard disk has not been chosen, but we now have a better idea of the size needed to support the index. Our calculations indicate that we will need 12 to 15 mb for the current index, so we are planning on a 27 to 30 mb hard disk to allow for growth. In every cloud there is a silver lining. Since submitting our first proposal, advanced typesetting equipment has been installed and refined at the Experiment Station. This will allow us to submit our manuscript on floppy disk, eliminating the need to rekey the entire work. All editorial work can be done on disk with the bibliography being printed only when it is in its final form. The Agricultural Data Center is now interested in loading our index in the mini-computer and making it available through the ANSER (the extension information system) network across the state. The addition of two graduate assistants in library science will increase the indexing capacity as more routine items will be given to them, thereby allowing the librarian to do the more complex indexing.

We continue to be enthusiastic about the KAES indexing project. Although we are almost a year behind schedule, we feel that delays will enable us to produce a better product. The final goal is to have a printed tool that includes major KAES publications covering the years 1885-1985; this publication will be issued to holding libraries. This index will also be offered to the microfilmer to be issued with the microfilm set of KAES documents. We will also have a machine index that will be updated continuously and made available on disk to our patrons and county agents or for those with a modem, through the ANSER Network around the state. Lastly, all substantial Kentucky documents will be available nationally and updated continuously through the AGRICOLA data base. This ambitious project will make a substantial contribution to the preservation of the agricultural literature.





NAL PROJECTS AND POLICIES

NEW INFORMATION CENTER FOCUSES ON THE FAMILY

A new information center focusing on the family joins NAL's growing roster of subject-oriented centers.

The Center is being developed with the cooperation and counsel of the Extension Service, and addresses family strengths, well-being, and social environment. Based on Extension's Home Economics programming needs, the Center emphasizes the specific subject areas of parent education, family adjustment to change and management of stress, and family and individual adjustment to midlife and the aging processes.

New and intensified problems are inherent in the social, economic, environmental, and health trends of the eighties. There is a national awareness of the need to strengthen families to help solve these problems. The establishment of the Family Information Center indicates a commitment by NAL to a strong human resources-oriented program. The Center will serve as the focal point for national concerns and also will rely on a network of interrelated systems that involves family-type organizations, USDA, university and Extension researchers and educators, and the provision of resources through the land-grant and/or local library system.

The formation of the Center responds, in part, to the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (Title XIV, Public Law 95-113) in which Congress called for new Federal initiatives to improve and expand research and Extension programs in home economics, including the area of family life.

In addition, a 1985 report from USDA's Joint Council indicates that both the State Extension Directors/Administrators and the National Extension Advisory Council continue to emphasize family strength programs for FY 1987.

NAL has initiated work with Extension personnel and other cooperators to identify and acquire a growing collection of family life research and educational programming materials. Through these integrated efforts, the Library has amassed a collection of scientific and educational materials which contribute to the knowledge base on family concerns.



Family Info. Center Coordinator Kate Hayes will work with Extension and others to identify and acquire family life resources. (Photo by Dan Starr)

The acquisition of 1,200 Family Life Education resources in support of the Extension's national MAPP project (Model for Analyzing and Planning Family Life Education Programs) is one such example. The MAPP collection is comprised of books, agency reports, dissertation abstracts, audiovisuals, journal articles, and Extension publications, which were identified as exemplary resources by State Child Development, Gerontology, and Family Life Extension Specialists. NAL continues to supplement the Extension MAPP collection with the other recommended resources and plans to utilize such materials through the Family Information Center.

Journal articles and Extension publications belonging to the MAPP collection will be tagged according to six stages of the family and then entered into AGRICOLA. The Family Center staff are also developing several bibliographies, each of which addresses a critical stage of the family including: marital relationships, families of childbearing age and young children, families with elementary school-age children, families with adolescents, empty nest/launching families, and families in retirement.

For further information about the Center's services and products contact Kate Hayes, Coordinator, Family Information Center, National Agricultural Library, Room 304, Beltsville, Maryland 20705, (301) 344-3719.



THE NATIONAL AGRICULTURAL LIBRARY 1986 EXHIBITS SCHEDULE

NAL staff will be available at the following conference locations to answer questions and receive comments about our products, services, and latest projects. Stop by our booth and see us. It's the next best thing to being in Beltsville!

*American Association for the Advancement of Science, Franklin Plaza and Philadelphia Center, Philadelphia, PA, May 25-30, Booth 42.

*American Society of Biological Chemists, D.C. Convention Center, Washington, D.C., June 8-12, Booth E63.

**Institute for Food Technologists, Dallas Convention Center, Dallas, TX, June 15-18.

**American Home Economics Association, Kansas City Convention Center, Kansas City, MO, June 23-25.

*American Library Association, Jacob K. Javits Convention Center, New York, NY, June 28-July 1, Booth 242.

**Society for Nutrition Education, J. W. Marriott Hotel, Washington, D.C., July 6-9.

*American Veterinary Medical Assoc., Georgia World Congress Center, Atlanta, GA, July 21-24.

American Soybean Association, Convention Exposition Center, Cincinnati, OH, July 25-28.

**American School Food Service Assoc., Cobo Hall, Hall C, Detroit, MI, July 28-30.

*American Institute of Biological Sciences, University of Massachusetts, Amherst, MA, August 10-14.

*Society of American Foresters, Birmingham Jefferson Convention Center, Birmingham, AL, October 5-8.

*Association of Official Analytical Chemists, The Registry, Washington, D.C., October 12-16.

**American Dietetic Association, Las Vegas Convention Center, Las Vegas, NV, October 28-30.

For more information about NAL exhibit activities contact:

*Elizabeth Goldberg, Head, Farming and Forestry Reference, Rm. 111, (301) 344-3704

**Robyn Frank, Chief, Food, Nutrition, and Human Ecology Staff, Rm. 304, (301) 344-3719



Get a head start at The Library


National Library Week April 6-12, 1986

NAL CONDUCTS JOURNAL EVALUATION

Last year, a Journal Evaluation Committee (JEC) was formed to conduct a systematic review of all journals indexed by NAL and its cooperative indexers and to recommend journals for coverage in AGRICOLA. The need to reassess journals is a result of overlap between the AGRICOLA and AGRIS databases. (NAL regularly contributes records to AGRIS which is now available in the United States as File 203 on DIALOG.) In addition, the Indexing Branch's backlog has grown because better subject access is being provided through the addition of CARVOC terms which, in turn, increases indexing time.

For these reasons, NAL plans to focus primarily on indexing U.S. publications and publications not indexed elsewhere. Other foreign literature will be covered on a more selective basis. By devoting resources to non-redundant material, agricultural literature will receive better overall coverage.

Each division of the Library was represented on the JEC. Lists of journal titles were compiled and journals examined in the following order: foreign language, English language (foreign imprint), and English language (U.S. imprint). Following completion of the journal evaluation process, NAL will be indexing approximately 4,500 journals. Indexing priorities have been established and USDA state experiment station, state extension service, and U.S. publications will be indexed before foreign literature.

A list of foreign language journals which will no longer be indexed in AGRICOLA is now available. Similar lists for the other two categories, English language (foreign imprint) and English language (U.S. imprint), will be available in the near future. To receive a copy of the lists, or for more information, send your request to Shirley Edwards, Head, Indexing Branch, Room 011, National Agricultural Library, Beltsville, Maryland 20705. 


UNIVERSITY OF NEBRASKA TO HOLD INTERNATIONAL LIVESTOCK GENETICS CONFERENCE

The 3rd World Congress on Genetics Applied to Livestock Production will be held July 17-22, 1986, at the University of Nebraska, Lincoln, NE (UN-L). The conference is sponsored by the Department of Animal Science, UN-L, the USDA Meat Animal Research Center, and the U.S. Scientific Societies and Industry Organization.

The scientific program includes plenary sessions of invited papers on breeding objectives, breed utilization and industry breeding programs by major species grouping and on general design of breeding programs, with corresponding submitted symposia (short oral) and poster paper sessions.

The 1986 Congress will adjourn 6 days before the Annual Meeting of the American Society of Animal Science (ASAS), July 29-August 1, at Kansas State University, Manhattan, Kansas (about 155 miles south of Lincoln). An optional post-Congress tour is planned for July 23-28.


The proceedings of the 3rd World Congress will be published in four volumes of about 900 pages each, and will be available to delegates when the Congress opens July 16. They also will be printed in sufficient numbers to fill orders from agricultural libraries around the world. The price to libraries will be approximately \$90 per four-volume set.

To order a set of proceedings or for more information about the conference write the Organizing Committee, 3rd WCGALP, 220 Baker Hall, University of Nebraska, Lincoln, NE 68583-0908. 

SURPLUS PUBLICATIONS AVAILABLE

The following publications are surplus to the needs of the National Agricultural Library's collection. They will be made available to any interested organization that regularly sends free publications to NAL. This includes most Federal, land-grant, and agricultural research institutions as well as many others. Foreign institutions will need to provide a U.S. mailing address or make other special arrangements with U.S. sources for shipment of material.

If interested, please write to:
National Agricultural Library, USDA,
Attn: Gift and Exchange, Room 112,
Beltsville, MD 20705 (enclose a return
addressed label), or call Susan Fugate,
(301) 344-3732.

1. Alberta Department of Agriculture. V. 10, 1907; V. 16, 1913; V. 54, 1948; V. 60, 1955; V. 64, 1961; V. 65, 1967; V. 74, 1968.
2. American Journal of Veterinary Research. v. 39, no. 9, 1978; V. 43, nos. 1-12, 1982.
3. American Paper Industry. V. 48, Jan.-Dec. 1966 (Bound); V. 51, Jan.-Dec. 1969 (Bound); V. 52, Jan.-Dec. 1970 (Bound).
4. Applied and Environmental Microbiology. V. 41, nos. 1-6, 1981 - V. 44, nos. 1-6, 1982.
5. Australian Journal of Botany. V. 29, nos. 1-6, 1981 - V. 30, nos. 1-6, 1982.
6. Biochemical Medicine. V. 6, 1971 - V. 22, 1979.
7. Endocrinology. V. 108, nos. 1-6, 1981 - V. 111, nos. 1-6, 1982.
8. Energy Research Abstracts and Indices. V. 1, 1976 - V. 9, 1984.
9. Journal of the Association of Official Analytical Chemists. V. 45, nos. 1, 3, 4, 1962; V. 46, nos. 1-6, 1963 - V. 47, nos. 1-6, 1964; V. 48, nos. 1, Supplement No. 1-4, 1965; V. 49, nos. 1, 3, 4, 5, 6, 1966; V. 50, nos. 1, 3, 5, 6, 1967; V. 51, nos. 1-6, 1968; V. 52, nos. 2-6, 1969; V. 53, nos. 1-6, 1970 - V. 59, nos. 1-6, 1976.
10. Journal of the Chemical Society. V. 24, 1871 - V. 60, 1891; V. 63, 1893 - V. 65, 1894; V. 74, 1898; Collective Index 1883-1892.
11. Journal of Food Science. V. 45, nos. 2, 4, 1980; V. 46, nos. 1, 2, 1981; V. 47, nos. 2-5, 1982.
12. Journal of Immunology. V. 122, nos. 1-6, 1979; V. 123, nos. 1-6, 1979.
13. Laboratory Training Manual on Technical Reports Series: Radioimmunoassay in Animal Reproduction. No. 233, Vienna, 1984.
14. Paper Trade Journal. V. 112, 1941 - V. 127, 1948 (Bound).
15. Parasitology. V. 80, parts 1-3, 1980; V. 81, part 3, 1980; V. 82, parts 1-4, 1981; V. 83, parts 1-3, 1981; V. 84, parts 1-4, 1982; V. 85, parts 1-3, 1982.
16. Pulpwood Production. V. 6, 1958 - V. 15, 1967 (Bound).
17. The Rose Annual, 1971-75; 1979-82.
18. Scottish Forestry. V. 49, 1935 and V. 50, 1936 (Bound); V. 51, 1937 - V. 60, 1946 (Bound); V. 16, 1962 - V. 19, 1965 (Bound); V. 20, nos. 1-4, 1966; V. 21, nos. 2-4, 1967; V. 22, 1968 - V. 23, 1969 (Bound); V. 24, nos. 1-3, 1970; V. 25, nos. 1-4, 1971; V. 26, nos. 1, 2, 4, 1972; V. 27, 1973 - V. 30, 1976; V. 31, nos. 1-4, 1977 - V. 32, nos. 1-4, 1978.
19. Separation Science and Technology. V. 1, 1966 - V. 15, 1980. 



NEW SERIALS RECEIVED AT NAL

AG IN THE CLASSROOM NOTES. Washington, D.C., U.S. Department of Agriculture. bi-m. Vol. 1, no. 1 (Nov. 1985)-
aS533.A35

COMPUTER APPLICATIONS IN THE BIOSCIENCES: CABIOS. Washington, D.C., IRL Press. q. Vol. 1, no. 1 (1985)-

QH313.C65

INTERNATIONAL AGROPHYSICS. Boston, MA, Nijhoff/W. Junk. q. Vol. 1, no. 1 (1985)-

S589.I57

JOURNAL OF TROPICAL ECOLOGY. New York, NY, Cambridge University Press. q. Vol. 1, pt. 1 (Feb. 1985)-

QH541.5.T7J68

OASIS: BIMESTRALE DI NATURA ECOLOGIA FOTOGRAFIA. Aosta, Italy, Musumeci & Fioratti. bi-m. Anno 1, n. 1 (genn./febb. 1985)-

QH7.027

PLANT PROTECTION QUARTERLY. Victoria, Australia, Inkata Press. q. Vol. 1, no. 1 (1985)-

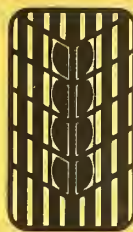
SB950.3.A8P535

QUARTERLY ECONOMIC REVIEW OF ANGOLA, SAO TOME & PRINCIPE. London, The Economist Intelligence Unit. q. no. 1 (1985)-

HC578.A5Q1

QUARTERLY ECONOMIC REVIEW OF AUSTRALIA. London, The Economist Intelligence Unit. q. no. 1 (1985)-

HC601.A1E3



ASSOCIATES NAL, INC.

ASSOCIATES NAL, INC. OPEN ANNUAL AWARDS NOMINATIONS

The Associates of the National Agricultural Library, Inc. are currently accepting nominations for outstanding individuals in the agricultural library community. Special awards in three categories will be presented at the organization's annual meeting in July 1986. The three award categories are:

(1) PROFESSIONAL ACHIEVEMENT AWARD for published contributions to library literature or meritorious accomplishment in the library science field. Eligibility: Open to scientists, researchers, librarians, professional societies, businesses, and Associates NAL, Inc.

(2) CITATION OF SPECIAL RECOGNITION for special achievement and/or service given to the National Agricultural Library, to other agricultural libraries, or significant achievements leading to the advancement of the library science field. Eligibility: Open to concerned individuals, organizations, and businesses in the agricultural field, NAL staff, and the Associates NAL, Inc.

(3) DISTINGUISHED SERVICE AWARD recognizes and encourages meritorious performance exceeding job requirements. Eligibility: Open to all members of the National Agricultural Library staff.

All nominations should be mailed no later than May 31, 1986, to Dr. Barbara Williams Jenkins, Box 1565, South Carolina State College, Orangeburg, South Carolina 29117. Each nomination should include the following information: (1) Name of the award for which the candidate is proposed, (2) a statement describing the basis of the nomination and, (3) where appropriate, a nomination.





NEW PUBLICATIONS OF NOTE

AGRICULTURAL AND ANIMAL SCIENCES JOURNALS AND SERIALS: AN ANALYTICAL GUIDE. January 1986. Greenwood Press publishers. Examines 361 major English-language agricultural journals and serials that are either research oriented or treat topics that receive minimal journal coverage. 211 p. \$45.00. Order from publisher, Box 5007, Westport, CT 06881. Tel.: (203) 226-3571.

****DAIRY, LIVESTOCK AND POULTRY: TRADE AND PROSPECTS, MAY 1985.** Washington, D.C., U.S. Department of Agriculture, Foreign Agricultural Service. May 1985. 49 p. (Report No. FDLP-3-85). \$9.95. PB85-211191/XAB.

****DETAILED PHOSPHORUS CHARACTERIZATION OF SEVENTY-EIGHT SOILS.** Beltsville, MD, U.S. Department of Agriculture, Agricultural Research Service. July 1985. 32 p. (Report No. ARS-31). \$9.95. PB85-243376.

****DIRECTORY OF FEDERAL LABORATORY AND TECHNOLOGY RESOURCES - A Guide to Services, Facilities and Expertise, 1986-1987.** 1986. A comprehensive guide to hundreds of Federal agencies, laboratories, and engineering centers. Describes the capabilities of each organization and information contacts. 288 p. \$32.00. PB86-10013/KCS.

****ESTIMATING COSTS AND RETURNS FOR POULTRY AND EGGS.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. July 1985. 32 p. (Report No. AGES-850703). \$9.95. PB85-236198/XAB.

***FRUIT CROP PESTS: GROWERS REPORT THE SEVERITY AND INTENSITY.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. 1985. 27 p. (Agriculture Information Bulletin No. 488). \$2.25. S/N 001-019-00377-4.

POTATO PRODUCTION IN THE NORTHEAST, A GUIDE TO INTEGRATED PEST MANAGEMENT. 1986. 93 p. \$4.75. Order from the Cooperative Extension Service, Bulletin Distribution Center, Cottage A, Thatcher Way, University of Massachusetts, Amherst, MA 01003.


PROCEEDINGS OF THE SYMPOSIUM ON THE COLORADO POTATO BEETLE, XVIITH INTERNATIONAL CONGRESS OF ENTOMOLOGY. 1986. David N. Ferro and Robert H. Voss, ed. \$7.00. Order from Massachusetts Agricultural Experiment Station, Bulletin Distribution Center, Cottage A, Thatcher Way, University of Massachusetts, Amherst, MA 01003.

***SOLAR ENERGY COMPUTER MODELS DIRECTORY.** Washington, D.C., U.S. Department of Energy. 1985. A compilation of models for six solar and renewable energy technologies; provides abstracts of over 300 available energy-related models and information contacts. 136 p. \$4.75. S/N 061-000-00661-3.

***U.S. CROPLAND, URBANIZATION, AND LANDOWNERSHIP PATTERNS.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. 1984. 17 p. (Agricultural Economic Report No. 520). \$1.50. S/N 001-019-00366-9.

VOCABULARY CONTROL FOR INFORMATION RETRIEVAL. Second Edition. February 1986. Information Resources Press publishers. Devoted to manual and computer-based thesauri and thesaurus-like aids to indexing and searching. \$29.95. Order from publisher, 1700 North Moore St., Suite 700, Arlington, VA 22209. Tel.: (703) 558-8270.

***Order from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 10402. Tel.: (202) 783-3238.**

****Order from National Technical Information Service, Identification Section, 5285 Port Royal Road, Springfield, VA 22161. Tel.: (703) 487-4780. All titles listed are available in microfiche for \$5.95 each.** 

QUICK BIBLIOGRAPHIES

The bibliographies in this series are primarily computerized online or batch bibliographies emanating from searches performed by the NAL reference staff in response to customer requests.

Searches are selected for inclusion based on the currency of the topic, interest among clientele, relative length and probable value to a larger audience. Revisions or updates will be renumbered and reannounced. Only one copy of a title will be sent; however, requesters may make copies. To request a copy of a Quick Bibliography send the title, series number, and a return addressed label to:

Reference Branches, Room 111
National Agricultural Library
Beltsville, MD 20705

NAL--Q.B.--86-30. AGRICULTURAL LEGISLATION, 1979-85. 177 citations from AGRICOLA. English only. Searched by Mary E. Lassanyi. January 1986.

NAL--Q.B.--86-31. ECONOMIC RISK MANAGEMENT IN AGRICULTURE. 114 citations from AGRICOLA. English only. Searched by Julianne Mangin. February 1986.

NAL--Q.B.--86-32. MUSHROOM CULTIVATION WORLDWIDE, 1979-85. 177 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. February 1986.

NAL--Q.B.--86-33. CATFISH FARMING, 1970-85. 195 citations from AGRICOLA. English only. Searched by Lee Decker. February 1986.

NAL--Q.B.--86-34. AQUACULTURE, 1984-85. 159 citations from AGRICOLA. English only. Searched by Deborah Hanfman. February 1986.

NAL--Q.B.--86-35. FRESHWATER SHRIMP AND PRAWNS, 1979-85. 68 citations from AGRICOLA. Languages none excluded. Searched by Deborah Hanfman. February 1986.

NAL--Q.B.--86-36. TROUT FARMING, 1979-85. 127 citations from AGRICOLA. English only. Searched by Deborah Hanfman. February 1986.



AGRICULTURE DATEBOOK

April 7-10: ENERGY FROM BIOMASS & WASTES X CONFERENCE AND EXPOSITION. Washington, D.C., Hotel Washington Hilton. Contact: Institute of Gas Technology, 3424 State Street, Chicago, IL 60616.

April 14-15: AMERICAN CHEMICAL SOCIETY SYMPOSIUM (co-sponsored with USDA). New York, NY. Theme: "Minimizing the Risk Associated with Pesticide Use." Contact: (202) 872-4600.

April 21-24: INTERNATIONAL WHEAT CONFERENCE. Cairo, Egypt. Contact: Virgil Johnson, Dept. of Agronomy, University of Nebraska, Lincoln, NE 68583-0915.

April 21-24: VIV-ASIA IN JAPAN. International exhibition of technology and systems for intensive animal production. Harumi Fairground, Tokyo. Contact: James Shaw & Assoc. Inc., 1 Burnhamthorpe Park Blvd., Islington, Ont. M9A 1H8, Canada.

April 28-30: NATIONAL FEED INGREDIENTS ASSOCIATION. Rosemont (Chicago), IL, Hyatt O'Hare. Contact: NFIA, One Corporate Place, Suite 375, West Des Moines, IA 50265.

May 4-7: NATIONAL AGRI-MARKETING ASSOCIATION ANNUAL CONFERENCE. Dallas, TX. Contact: (913) 341-5445.

May 7-13: 59TH INTERNATIONAL AGRICULTURAL SHOW. Hanover, Germany. Contact: German Agricultural Society, Zimmerweg 16, D-6000 Frankfurt am Main 1.

May 11-14: AMERICAN SOCIETY FOR INFORMATION SCIENCE (ASIS) MID-YEAR MEETING. Portland, OR. "Database Management; Building, Changing, and Using Databases." Contact: ASIS, 1424 16th St., N.W., Suite 404, Washington, D.C. 20036. Tel.: (202) 462-1000.

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May 21-22: AACC COMPUTERS IN THE LAB
SHORT COURSE. Chicago, IL, Holiday Inn
O'Hare Kennedy. Contact: Dotty
Ginsberg, AACC Short Course
Coordinator, 3340 Pilot Knob Rd., St.
Paul, MN 55121.

May 21-23. 78TH ANNUAL AFIA
CONVENTION. New Orleans, LA. Contact:
Mississippi Feed and Grain Association,
P. O. Box 9714, Jackson, MS 39206.

May 25-30: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE.
Philadelphia, PA, Franklin Plaza Hotel.
Contact: AAAS, 1333 H St., N.W.,
Washington, D.C. 20005. Tel.: (202)
326-6459.

June 3-9: AGTECH '86: CHINA
INTERNATIONAL AGRICULTURE AND FARMING
EXHIBITION. Shanghai, People's
Republic of China. Contact: Robert E.
O'Donnell, China Expo Management
Corporation, 6 E. 39th Street, Suite
700, New York, NY 10016.

June 8-14: 11TH NATIONAL PASSIVE SOLAR
CONFERENCE. Boulder, CO, University of
Colorado. Contact: American Solar Energy
Society, Inc., 2030 17th Street, Boulder,
CO 80302.

June 23-27: INTERNATIONAL SYMPOSIUM ON
WINDBREAK TECHNOLOGY. Lincoln, NE, Lincoln
Hilton Hotel. Contact: James R. Brandle,
Department of Forestry, Fisheries, and
Wildlife, 101 Plant Industry, University of
Nebraska, Lincoln, NE 68583-0814.



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